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A Bibliography on Ocean Waste Disposal Second Edition

Interstate Electronics Corp, Anaheim, Calif

Prepared for

**Environmental Protection Agency, Washington, D C Ocean Disposal Program
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SECOND EDITION

**A Bibliography On
OCEAN WASTE
DISPOSAL**

Prepared By
IEC - Environmental Engineering
for the
Ocean Disposal Program Office
U.S. Environmental Protection Agency
under
Contract 68-01-0796

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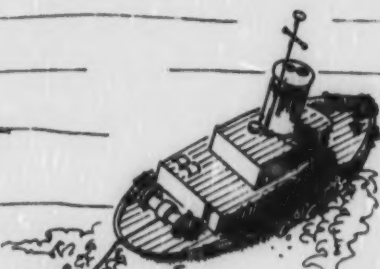
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REPORT 4460C0417

MAY 1973

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A BIBLIOGRAPHY
ON
OCEAN WASTE DISPOSAL

by

H. G. Stanley
D. W. Kaplanek

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OFFICE OF WATER PROGRAM OPERATIONS
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ABSTRACT

A Bibliography on Ocean Waste Disposal Second Edition September 1976

This research bibliography was prepared for the Office of Water Program Operations, U.S. Environmental Protection Agency, Washington, D.C. It is restricted to documents relevant to the field of ocean waste disposal. It is primarily limited to recent publications in the categories of:

General Ocean Waste Disposal, Non-Point Source
Oceanic Disposal of Radioactive Wastes
At-Sea Incineration

More than 600 documents are accessioned with eighty-two of them abstracted. A list of identifiers for computerized accession is included.

TABLE OF CONTENTS

Foreward	iii
Introduction	iv
Bibliography	1
Section 1 - General Ocean Disposal	
Section 2 - Bibliography	
Section 3 - Radioactive Waste	
Section 4 - Incineration	
Section 5 - Annotated Abstracts	

FOREWORD

Interstate Electronics Corporation has performed a study of ocean waste disposal under contract to the Office of Water Program Operations. The purpose of this study was to assist the Environmental Protection Agency in the development of criteria for the control of ocean waste disposal.

In May of 1973, the need for a specialized bibliography was recognized and the first edition of this publication was issued. New material has become available in the interim, necessitating the preparation of an updated and expanded second edition.

T. A. Wastler
Chief,
Marine Protection Branch

INTRODUCTION

This bibliography was prepared for use by the Ocean Disposal Program Office of the U.S. Environmental Protection Agency. It is available on a computerized retrieval system permitting recovery by a wide range of key words and descriptors. Functional descriptors have been obtained from the "Thesaurus of Water Resources Terms", (1971). Basic descriptors used are:

Alaska	New England
Analytical Methods	New York
Bio-degradable Wastes	New York Bight
Bioassay	Ocean Disposal
Biological Impact	Ocean Dumping Economics
Charleston-South Carolina	Oceanography
Coastal Zone Management	Oil
Coastal Zone Waters	Oil Pollution
Dredge Spoil	Pesticides
Dredge Spoil Disposal	Pollution-General
Dredging	Prohibited Materials
Economic	Puget Sound
Environmental Factors	Pulp
Environmental Monitoring	Radioactive Waste
Erosion	San Diego
Estuarine Pollution	San Francisco
Explosives	Sediment
Fish Resources	Ship Waste Disposal
Gulf Coast	Sludge Disposal
Harbor Pollution	So. California Bight
Hazardous Materials	Solid Waste
Incineration	Surface Runoff
Legal/Legislation	Waste Disposal-General
Liquid Waste	Water Chemistry
Long Beach	Water Pollution
Los Angeles	Water Quality
Mercury	Wildlife Conservation
Municipal Waste	

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Air Pollution Technical Information Center, EPA
Research Triangle Park, North Carolina

Atmospheric Sciences Library, NOAA
8060 13th Street, Gramex Building
Silver Spring, Maryland 20910

Coastal Engineering Research Center
U.S. Army, Corps of Engineers
Fort Belvoir, Virginia 22060

Defense Documentation Center,
Alexandria, Virginia

Environmental Science Information Center, NOAA
Environmental Data Service
Washington, DC 20235

Library of Congress
First and Independence Ave., S.E.
Washington, DC 20540

Marine and Earth Sciences Library, NOAA
6001 Executive Blvd.
Rockville, Maryland 20852

Marine Sciences Research Center, NOAA
State University of New York
Stony Brook, New York 11790

National Academy of Sciences
Ocean Affairs Board
Joseph Henry Bldg., Room 1417
2100 Pennsylvania Ave., N.W.
Washington, DC 20418

National Academy of Sciences, Library
2101 Constitution Ave., N.W.
Washington, DC 20418

National Environmental Research Center, EPA
Information Center, Cincinnati, Ohio

National Environmental Research Center, EPA
Pacific Northwest Water Lab, Corvallis, Oregon

National Science Foundation
1800 G. Street, N.W.
Washington, DC 20550

National Sea Grant Depository, NOAA
Pell Marine Science Library
University of Rhode Island
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National Technical Information Service,
Springfield, Virginia

Nuclear Energy Center Site Survey
7735 Old Georgetown Road
Bethesda, Maryland 20014
Technical Library
7920 Norfolk Avenue
Bethesda, Maryland 20014

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Literature Search
1717 H Ave., N.W.
Washington, DC 20013

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Library Systems Branch
Headquarters Library, Room 2404
Waterside Mall
Washington, DC 20460

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Washington, DC
Ocean Waste Disposal Office
Germantown, Maryland 21930

Office of Research and Monitoring, EPA
Washington, DC

Smithsonian Information Exchange
1730 M Street, N.W., Suite 300
Washington, DC 20036

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Rockville, Maryland

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Cincinnati, Ohio

U.S. Army Engineer Waterways Experiment Station
Department of the Army, Corps of Engineers
Vicksburg, Mississippi 39180

Section 1

GENERAL OCEAN DISPOSAL

T. J. Achrem
Interstate Electronics Corporation, Environmental Engineering
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Section 4

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NTIS, Springfield, VA
NTIS AD/A-005 168/0ST, 435 pp., March 6, 1975

Section 5

ANNOTATED ABSTRACTS

T.J. Achrem

COASTAL ZONE WATER QUALITY MONITORING IN THE NEW YORK BIGHT

Interstate Electronics Corporation, Oceanics Department

Anaheim, CA 92803

Report No. 445-B1, 1973

****Abstract**

Findings of a field case study of the New York Bight are presented. Purpose of the study was to determine the extent of, and need for coastal zone water quality monitoring in the area. The report is a compendium of information including tabulations of organizations engaged in coastal zone water monitoring, their laboratory capabilities, data needs and internal organization. Separate sections are devoted to discussions of socio-economic problems associated with coastal zone water quality and recommendations for design and implementation of a coordinated coastal zone water quality monitoring network. A selected bibliography and list of personnel concerned with the coastal zone water quality monitoring in the area is included.

****Key words:** coastal zone, New York Bight, monitoring, water quality, information systems

T. J. Achrem

Interstate Electronics Corporation, Environmental Engineering

Division, Anaheim, CA

OCEAN WASTE DISPOSAL IN THE NEW YORK BIGHT

NTIS, Springfield, VA

NTIS PB-224 983/1, 129 pp., August 1973

****Abstract**

The report is an extract from a comprehensive study on ocean waste disposal in selected geographic areas. Its purpose was to provide information to assist in the development of criteria for the control of ocean waste disposal. An intensive field survey was conducted in the New York City metropolitan region during the spring of 1973. The purpose was to establish personal contact with agencies and persons cognizant of ocean disposal practices

OCEAN DISPOSAL BIBLIOGRAPHY
SEPTEMBER 1976 REVISION

in the New York Bight. This report presents the findings of that survey. It includes specific sections on ocean dump site characteristics; their geographic location; type and volume of material dumped; method of disposal; description of disposal sites; current monitoring procedures; local regulating agencies; estuarine economics; an extensive chronology of related major events; and, alternatives and recommendations for ocean disposal in the New York Bight.

****Key words;** New York Bight - solid waste disposal, water pollution - New York Bight, sewage, sludge, fishes, site surveys, economics, beaches, regulations, recreational facilities, aquatic biology, water quality, industrial wastes, alkalies, food processing, acids, Atlantic Ocean

U.S. Army Corps of Engineers
DREDGE DISPOSAL STUDY FOR SAN FRANCISCO BAY AND ESTUARY,
PRELIMINARY REPORT ON MAIN SHIP CHANNEL (SAN FRANCISCO BAR)
U.S. Army Engineer District, San Francisco, CA
June 1971

****Abstract**

The purpose of this dredge disposal study, as applied to the Main Ship Channel, is to determine the effects of dredging and material disposal on the marine environment and to develop dredging procedures and disposal sites to mitigate possible adverse effects on and/or enhance the marine resources of the affected areas. Scope of the study encompasses field investigations, laboratory analyses and office studies of properties of the Main Ship Channel and disposal site to the extent that disturbance of these properties by dredging operations and disposal of dredge materials may adversely affect or enhance the marine environment. The report presents data and analyses of various findings to date, and outlines necessary additional studies to complete the stated purpose of the study.

****Key words:** dredge spoil, coastal zone management, San Francisco Bay, disposal sites

U.S. Army Corps of Engineers
SURVEILLANCE PROGRAM OF SEDIMENTATION EFFECTS OF HYDRAULIC DREDGING
BON SECOUR BAY SECTION - GULF INTRACOASTAL WATER WAY, JULY-DEC, 1967
U.S. Army Engineer District, Mobile, AL
January, 1968

****Abstract**

This program monitored the dredging project in the Bon Secour Bay portion of the Gulf Intracoastal Waterway by means of a surveillance program designed to study the sedimentation characteristics of this body of water. The primary objective was to

OCEAN DISPOSAL BIBLIOGRAPHY
SEPTEMBER 1976 REVISION

prevent the sediment which was placed in suspension by the dredging operations from directly affecting the oyster producing areas. At the same time, it was hoped to gain some knowledge of the effect of the natural suspending agencies of wind, waves and tide, upon the sediment conditions of this embayment. It was not necessary to conduct a comprehensive parametric study to accomplish the purpose of the program and therefore only quantitative sediment studies were conducted. However, an integral part of this study was the use of test oysters which were examined weekly during critical periods to augment and substantiate the results indicated by the sediment samples.
**Key words: dredge spoil, biological impact, shellfish (oysters), sediment studies, Bon Secour Bay, AL

U.S. Army Corps of Engineers
SURVEY REPORT ON COOPER RIVER, S.C. (SHOALING IN CHARLESTON HARBOR) HARBOR POLLUTION STUDY, APPENDIX F
U.S. Army Engineer District, Charleston, SC
July 1966

****Abstract**

The purpose of the study was to investigate the effects of the proposed Cooper River redirection on the water quality in Charleston Harbor. The scope of the study was to determine the existing water quality as measured by various bacteriological, biological, chemical and physical parameters; an investigation of the effects of interactions of these parameters on environmental changes; and a prediction of the response of the water quality to the proposed reduction of fresh water inflow. The area of study included the lower reaches of the Ashley, Cooper, and Wando Rivers, the harbor area between these tributaries, and the harbor entrance.

****Key words:** pollution, Charleston Harbor, water quality parameters, interaction of parameters

D. J. Baumgartner
A BRIEF OUTLINE OF A STUDY OF SEWAGE SLUDGE DUMPING IN THE NEW YORK BIGHT
National Environmental Research Center, EPA, Corvallis, OR
September 12, 1972

****Abstract**

This study discusses the amount and type of digested domestic sewage sludge that will be discharged under varying controlled conditions in a designated location of the New York Bight. The project site tentatively selected with the assistance of several of the participants is about 15 miles south of Fire Island, where the depth is approximately 100 feet (latitude 40 degrees 25

OCEAN DISPOSAL BIBLIOGRAPHY
SEPTEMBER 1976 REVISION

minutes N, longitude 73 degrees 11 minutes W) As far as can be determined at this time, the site is essentially free of major influence from the present sludge dumping area.

****Key words:** sludge disposal, water chemistry, New York Bight

D. J. Baumgartner

DISPOSAL OF LIQUID AND PARTICULATE WASTES TO THE OCEAN
National Environmental Research Center, EPA, Corvallis, OR
1970

****Abstract**

A large percentage of the nation's population lives and works near the coast lines of the oceans, the Gulf of Mexico, and the Great Lakes, due possibly to the influence of industrial concentration and the appeal of the environment. The municipal and industrial wastes generated by this activity are frequently discharged after various degrees of treatment directly to these large bodies of water, either through pipe lines or from barges. The purpose of this paper is to describe the methods available for analyzing the fate of wastes discharged to the environment, to give some examples of the amount of dilution achieved near the discharge site, and some of the limitations of the state of the art.

****Key words:** liquid waste, particulate waste, fate of wastes, dispersion, analysis methodology

D. J. Baumgartner, B. D. Clark

W. F. Rittal, and K. V. Bryan

THE BARGED OCEAN DISPOSAL OF WASTES, A REVIEW OF CURRENT
PRACTICE AND METHODS OF EVALUATION

National Environmental Research Center, EPA, Corvallis, OR
July, 1971

****Abstract**

This report consists of a broad scope examination of barged ocean disposal of liquid and solid wastes. Basic discussions include: the physical characteristics of various selected wastes, economics as a function of haul distance, reported effects of past discharge operations and the relative importance of environmental factors such as density and current profiles. The major emphasis of the report centers on physical fate prediction methods and describes the physical transport in four separate steps: convective descent, collapse, long term dispersion and bottom transport or resuspension. An existing mathematical model developed by Koh and Fan is used and demonstrates the complex nature of some of the more obvious parameters, the potential usefulness of the approach to coastline management efforts while

OCEAN DISPOSAL BIBLIOGRAPHY
SEPTEMBER 1976 REVISION

serving as a vehicle for the discussion of current state of the art limitations and research needs.

****Key words:** barged disposal, liquid wastes, solid wastes, physical characteristics, economics, fate prediction methods, modeling

Richard E. Bellis

SPECIAL REPORT ON OCEAN DUMPING

The Staff of the Shellfish Control Section

New Jersey Dept. of Environmental Protection, Trenton, NJ
1971

****Abstract**

This report encompasses a study of ocean disposal sites located off the New Jersey coast. Findings lead to a recommendation that ocean dumping be allowed only beyond the 1,000 fathom contour.

****Key words:** biological impact, shellfish, disposal site, New Jersey

F. Gilman Blake

THE FEDERAL OCEAN PROGRAM

Executive Office of the President, Office of Science and Technology
Washington, DC

November, 1972

****Abstract**

This oral presentation discusses the status of the Federal Ocean Program, and projects related to marine environmental quality. Three areas of concern include: environmental science engineering development, and regulatory surveillance.

****Key words:** international policy, ocean environmental science, legislation, ocean disposal

Malcolm J. Bowman, Peter K. Weyl

HYDROGRAPHIC STUDY OF THE SHELF AND SLOPE WATERS OF NEW YORK BIGHT

Marine Sciences Research Center, State U. of New York,
Stony Brook, NY 11790

Technical Report No. 16, August 1972

****Abstract**

This report presents results obtained from three oceanographic cruises made by the Marine Sciences Research Center during 1970 and 1971 to investigate the physical characteristics of the shelf and slope waters of New York Bight. The existence of a sharp temperature-salinity front over the continental slope was confirmed during the months of June 1970 and April 1971. Associated with this front is a subsurface warm tongue delineated by a temperature maximum which intersects the edge of the shelf

at a depth of about 150 meters. Data obtained in August 1971 showed no evidence of any temperature front over the slope but suggested the existence of an irregular salinity gradient in this region. Three factors appear to be important in the dynamics of the formation and dispersion of the subsurface warm tongue over the continental slope. These are the existence of the temperature-salinity front and the associated convergence zone, the meanderings of the Gulf Stream and the creation of warm eddies, and the intrusion of Labrador water into the Bight.

****Key words:** hydrography, New York Bight, temperature, salinity

M. B. Boyd, R. T. Saucier, et al
DISPOSAL OF DREDGE SPOIL: PROBLEM IDENTIFICATION AND ASSESSMENT
AND RESEARCH PROGRAM DEVELOPMENT
U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS
Technical Report H-72-8, November 1972

****Abstract**

The Corps of Engineers, in fulfilling its mission in developing and maintaining the nation's navigable waterways, will continue to be responsible for extensive dredging operations. Considerable concern has developed as to the environmental impact of the operations, with particular emphasis on open water disposal, especially that involving spoil materials containing pollutants. As a partial solution to the problem, the Corps was authorized to conduct a four-phase comprehensive nationwide study of the environmental impact of current disposal operations, including research leading to new or improved spoil disposal practices. This report contains the results of the first two study phases, i.e., problem identification and assessment and research program development. As a result of the assessment, it is concluded that the nature and magnitude of effects of dredging and spoil disposal on water quality and aquatic organisms are quite poorly known and require extensive research. Since the consequences of confined land disposal are similarly poorly known, considerable research is needed to make this a viable disposal alternative. Research is needed to develop and implement pollution criteria for use in disposal alternative decision making as existing criteria have major identifiable weaknesses in implementation procedures, scope, and application. A broad-based research program is outlined and recommended to develop a wide choice of technically satisfactory environmentally compatible, and economically feasible disposal alternatives to cover the wide variety of dredging and disposal operations and environments. In addition to extensive research concerning the effects of dredging and open water disposal on water quality and aquatic organisms, ways would be sought to facilitate and improve the overall effectiveness and acceptability of land disposal.

OCEAN DISPOSAL BIBLIOGRAPHY
SEPTEMBER 1976 REVISION

Attention would also be devoted to modifying dredge plant equipment and operational procedures to reduce environmental impact, and to physical, chemical, and/or biological spoil improvement methods.

****Key words:** dredge spoil, environmental impact, problem assessment, program development.

Ralph W. Buelow, Benjamin H. Pringle, James L. Verber
PRELIMINARY INVESTIGATION OF WASTE DISPOSAL IN THE NEW YORK BIGHT

USEHEW, Northeast Marine Health Sciences Lab, Narragansett, RI
January, 1968

****Abstract**

Waters of the New York Bight utilized as sewage sludge disposal grounds for much of the New York Metropolitan Area were investigated. Effects on shellfish sanitation and production are considered, and data on sewage sludge disposal is presented.

****Key words:** New York Bight, waste disposal, shellfish, sewage sludge

Fred J. Burgess, Wesley P. James
AIRPHOTO ANALYSIS OF OCEAN OUTFALL DISPERSION
U.S. Govt. Printing Office, Washington, DC
Volume 16070ENS06-71, June, 1971

****Abstract**

Aerial photography was taken of the ocean outfall waste plume at Newport, Oregon, during the summers of 1968, 1969, and the period extending from September 1970 through May 1971. Computerized techniques to analyze the photos were developed by combining the principles of photogrammetry and photo interpretation. This remote sensing system involving multispectral photography was utilized to yield waste concentrations, water currents and diffusion coefficients. Procedures were developed to evaluate proposed ocean outfall sites by using dye drops from an airplane. Diffusion coefficients and water current velocities were determined from aerial photography. A minimum of two photographic flights over the area were required to show the transport and spread of the dye patches. Characteristic airphoto pattern elements are given for visual interpretation of the photography. Wind velocity, sea state, current velocity, wave height and diffusion coefficients can be estimated from the aerial photography.

****Key words:** ocean outfall, aerial photography, remote sensing, marine disposal, diffusion, water currents

OCEAN DISPOSAL BIBLIOGRAPHY
SEPTEMBER 1976 REVISION

M. A. Buzas, et al

SMITHSONIAN ADVISORY COMMITTEE REPORT ON STUDIES OF THE EFFECTS OF
WASTE DISPOSAL IN THE NEW YORK BIGHT

Smithsonian Advisory Committee, Washington, DC

National Technical Information Service, Springfield, VA 22151

July, 1972

****Abstract**

This report reviews six reports pertaining to marine waste disposal in terms of scientific content and meaning, assesses the effects of waste disposal on the New York Bight, suggests changes in present disposal operations, and recommends further research.

****Key words:** New York Bight, pollution, ecology, dredge spoil, waste chemicals, fly ash

U.S. Dept. of Commerce, NOAA

INVESTIGATION SUMMARIES, WASTE DISPOSAL IN THE NEW YORK BIGHT

NOAA, Nat'l Marine Fisheries Service, Sandy Hook Lab,

Highlands, NJ

Informal Report No. 4, September, 1972

****Abstract**

This report relates to the effects of waste disposal in the New York Bight. The report describes functions and research activities of the Middle Atlantic Coastal Fisheries Center of the National Marine Fisheries Service, NOAA, in the U.S. Dept. of Commerce. Current investigations include: resource assessment, ecosystems, experimental biology, pathobiology, and aquaculture.

****Key words:** resource assessment, ecosystems, biology, pathobiology, aquaculture, New York Bight

U.S. Dept. of Commerce, NOAA

National Marine Fisheries Service

THE EFFECTS OF WASTE DISPOSAL IN THE NEW YORK BIGHT

SUMMARY FINAL REPORT

National Marine Fisheries Service; Sandy Hook Lab., Highlands, NJ

Information Report No. 2, April, 1972

****Abstract**

This report covers the findings of investigations of waste disposal in the New York Bight dating back to 1951. Recommendations stress the need for studying alternate methods for disposal of dredge spoil into inshore waters. Studies included the following subjects: benthos, zooplankton, finfish, chemistry, and surface and bottom water movements.

****Key words:** New York Bight, benthos, zooplankton, finfish, water movement, water chemistry, biological impact

OCEAN DISPOSAL BIBLIOGRAPHY
SEPTEMBER 1976 REVISION

U.S. Dept. of Commerce, NOAA
THE EFFECTS OF WASTE DISPOSAL IN THE NEW YORK BIGHT, FINAL
REPORT
National Marine Fisheries Service, Middle Atlantic Coastal
Fisheries Center, Sandy Hook Lab, Highlands NJ 07732
February, 1972

****Abstract**

The purpose of this report was to review the problems associated with disposal of sewage sludge and dredge spoils in the waters of the New York Bight. Agencies cooperating in this study include: U.S. Army, Corps of Engineers, U.S. Dept. of Interior, U.S. Navy, U.S. Dept. of Health, Education and Welfare, U.S. Dept. of State, and the Federal Water Pollution Control Administration. The report is the final Report and summary of nine volumes or sections covering the following studies: benthos, zooplankton, finfish, chemistry, and surface and bottom water movement. Conclusions and a bibliography are included.

****Key words:** New York Bight, benthos, zooplankton, finfish, chemistry, wave movement

U.S. Dept. of Commerce
A SHORT TERM ECOLOGICAL SURVEY OF WESTERN LONG ISLAND SOUND
DAVID'S ISLAND, PHASE I
NOAA, Middle Atlantic Coastal Fisheries Center, Highlands, NJ
Informal Report No. 7, December 5, 1972

****Abstract**

A survey of the biology and water chemistry of western Long Island Sound was conducted from April-September 1971. Temperature and dissolved oxygen were found to be fairly uniform between stations, and followed predictable seasonal patterns. Benthic infauna were rare in deep-water samples taken in early spring, but were more abundant around Davids Island later in the survey period. Generally, the study area was considered to support large and fairly typical populations of phytoplankton, zooplankton and larger fish and crustaceans. The area showed evidence of bacterial pollution, according to coliform data from several agencies.

****Key words:** Long Island Sound, water chemistry, biology

U.S. Dept. of Commerce, NOAA
COOPERATIVE STUDY OF CONTAMINANTS IN THE COASTAL ENVIRONMENT
AND THEIR EFFECTS ON LIVING MARINE RESOURCES
NOAA, Middle Atlantic Coastal Fisheries Center, Sandy Hook Lab,
Highlands, NJ
Informal Report No. 5, October, 1972

OCEAN DISPOSAL BIBLIOGRAPHY
SEPTEMBER 1976 REVISION

****Abstract**

A cooperative venture involving all NMFS Biological Laboratories of the Middle Atlantic Coastal Fisheries Center to study contaminants in marine ecosystems of the northeast and middle Atlantic coasts was initiated in the spring of 1971 with the following objectives: 1. Delineate the contaminant levels (with particular emphasis on mercury) in living marine resources and their environment. 2. Determine the specific effects of waste disposal areas (i.e., ocean dump sites) in concentrating harmful contaminant materials. 3. Determine the pathological and physiological effects of contaminants on selected, typical marine organisms. 4. Develop a multilaboratory cooperative approach to the study of these problems and the essential methodology to conduct a long range contaminant program. The ultimate goal of the long-range study was to identify the impact of contaminants in relation to the abundance and distribution of living marine resources, to provide essential baselines for regulatory enforcement, and to provide specific information to balance waste disposal and economically valuable resources. This report describes the efforts of the MACFC contaminant study from March 1971 through April 1972; the accomplishments, the problems encountered and recommendations for future studies in FY 1973.

****Key words:** coastal zone, pollution, biological impact, pathological effects, physiological effects, contaminants

Eugene E. Dallaire

OCEAN DUMPING: WHAT AND WHERE, IF AT ALL?

Civil Engineering - ASCE, Washington, DC

41(11):58-62, Nov., 1971

****Abstract**

This article presents an in-depth discussion of the pro's and con's of ocean dumping of sewage sludge, dredge spoils, municipal refuse, and industrial wastes. Also, "what are we to do about the tremendous damage that municipal plant effluents are making on our estuaries, bays and other shallow waters?" The report discusses a report issued by the Sandy Hook Laboratory of the U.S. Bureau of Fisheries and Wildlife on work done on the condition of a stretch of the Atlantic Ocean 10 miles outside of New York harbor. The study indicated that sludge dumping had turned a 20 sq. mi. area in the New York Bight into a "dead sea." The area had been a disposal site for both raw and untreated sludges from the New York-New Jersey metropolitan area for about 44 years. The area was characterized by an absence of dissolved oxygen, of visible plant and animal life on the sea floor, and the presence of concentrations of chromium, lead, copper, mercury, and large amounts of plant nutrients and oil.

****Key words:** policy, water pollution, New York Bight, sludge

OCEAN DISPOSAL BIBLIOGRAPHY
SEPTEMBER 1976 REVISION

dumping

M. B. Davis

MONITORING OF THE MARINE ENVIRONMENT FOR WASTE COMPONENTS AND
FOR EFFECTS OF THE INTRODUCED WASTES
Environmental Engineering Div., Texas A&M U., College Park, TX
Background Paper VIII, 1969

****Abstract**

This report discusses the monitoring of the coastal marine environment for waste components and their effects on this environment which must be considered as the basis of a total system concept. In consideration of monitoring, therefore, we need be concerned with data collection, assimilation, evaluation and response procedures with a view toward reduction of the elapsed time interval between the first and last of these actions.

****Key words:** monitoring, coastal zone, wastes

R. S. Domenowske, R. I. Matsuda

SLUDGE DISPOSAL AND THE MARINE ENVIRONMENT
Journal of the Water Pollution Control Federation,
Washington, DC
Volume 41, No. 9, pp. 1613-24, September, 1969

****Abstract**

The Seattle, Washington area once disposed of most of its treated and untreated wastewater directly into the nearest body of water (Lake Washington, Lake Union, the Duwanish estuary, and Puget Sound). Installation of the West Point wastewater treatment plant in 1968 corrected the pollution problems.

****Key words:** water pollution, Puget Sound, Seattle, wastewater

Billy L. Edge, B. C. Dysart III

TRANSPORT MECHANISMS GOVERNING SLUDGES AND OTHER MATERIALS
BARGED TO SEA
Dept. of Civil Engineering and Environmental Systems Engineering
Clemson University, Clemson, SC 29631
September, 1972

****Abstract**

Due to increased environmental pressures, there is a rapidly-growing tendency to shift from traditional land disposal of waste sludges and dredged materials to offshore or ocean disposal. The quantities of such materials are quite large, resulting in a very serious disposal problem. For example, maintenance dredging alone produces approximately ten million cubic yards of material annually in Charleston Harbor. Existing techniques are

OCEAN DISPOSAL BIBLIOGRAPHY
SEPTEMBER 1976 REVISION

reasonably adequate to describe the transport and settling characteristics of coarse, sandy dredged materials discharged from barges or hopper dredged at sea. However, such approaches need to be significantly modified to describe the transport of industrial and municipal wastewater sludges as well as fine-grained clay and silt dredged materials. This material constitutes a significant portion of the dredged material resulting from both new harbor and channel construction and maintenance dredging along the coast of the Carolinas and Georgia. It has been proposed recently that approximately 6,000 tons of acid-iron sludge be discharged every 4-5 days off the coast near Savannah and Charleston. This appears to be the trend in disposal of massive quantities of industrial waste sludges. These fine-grained materials are subject to many additional physical forces as well as chemical phenomena, e.g., flocculation, salinity and temperature variations, etc. A hydrodynamic model for fine-grained dredged material has been developed which considers many of these forces. It is also applicable for describing the transport mechanisms associated with barge disposal of wastewater sludges from industrial and municipal sources. The results of the model indicate what discharge strategies might be necessary for placing the sludge at a desired location or depth with a predetermined concentration.

****Key words:** ocean dumping economics, disposal, model, hydrodynamic model, discharge strategies

U.S. Environmental Protection Agency
OCEAN DISPOSAL PRACTICES AND EFFECTS
U.S. EPA, Washington, DC
September, 1972

****Abstract**

The President's Water Pollution Control Advisory Board on ocean disposal practices and effects met in New York City. The scope of the concern was local, national and international. The board recommended that the practice of discharging of raw sewage into any harbor be replaced by construction of sewage treatment plants with complete sludge digestion.

****Key words:** ocean disposal, sewage sludge, policy, New York

U.S. Environmental Protection Agency
CYCLING AND CONTROL OF METALS
U.S. EPA, National Environmental Research Center, Cincinnati, OH
Feb., 1973

****Abstract**

This volume is based on a conference held October 31 through November 2, 1972, in Columbus, Ohio. Each of the five sessions

OCEAN DISPOSAL BIBLIOGRAPHY
SEPTEMBER 1976 REVISION

of the conference was designed to bring together knowledge and thinking in areas bearing on the problem of metals and their relationship to the environment. Considering the sources of tracer metals in the environment was only part of the story. Transport and effects, control processes, monitoring for trace metals, and the economic and legal aspects of pollution were also discussed.

****Key words:** water pollution, metals, monitoring, legislation

U.S. Environmental Protection Agency
COST EFFECTIVENESS IN WATER QUALITY PROGRAMS
Office of Air & Water Programs, EPA, Washington, DC 20460
October, 1972

****Abstract**

This document discusses critical cost-effectiveness issues that the Environmental Protection Agency believes must be addressed in water quality planning.

****Key words:** cost effectiveness, water quality, planning

Larry A. Esvelt, Warren J. Kaufman
Robert E. Selleck
TOXICITY REMOVAL FROM MUNICIPAL WASTEWATERS
A STUDY OF TOXICITY AND BIOSTIMULATION IN SAN FRANCISCO
BAY - DELTA WATERS
Sanitary Engineering Research Lab and School of Public Health,
University of California, Berkeley, CA
Volume IV, Report No. 71-7, October, 1971

****Abstract**

This report is principally concerned with the toxicity of municipal wastewaters and its removal by conventional and advanced waste treatment processes. Attention has also been given to the methods of determining toxicity to fish and monitoring the discharge of toxicity. Toxicity measurements were made with continuous-flow online fish bioassays. Three species of fish were employed during the study with a majority of the assays using the commercially available golden shiner. The wastewater toxicities for sewage systems were studied utilizing full scale or pilot plant test facilities.

****Key words:** toxicity removal, municipal waste, waste treatment.

Florida Ocean Sciences Institute
LIMITATIONS AND EFFECTS OF WASTE DISPOSAL ON AN OCEAN SHELF
U.S. Govt. Printing Office, Washington, DC
Volume 16070EFG 12/71, December, 1971

OCEAN DISPOSAL BIBLIOGRAPHY
SEPTEMBER 1976 REVISION

****Abstract**

The biological, chemical and physical oceanographic properties of the coastal waters off Pompano, Boca Raton and Delray, Florida were investigated over a three-year study to determine the effects of marine waste disposal from the untreated outfalls at Pompano and Delray and the planned outfall for Boca Raton. The macroscopic benthic communities and microbiotic organisms of the sediment-water interface and of the free drifting plankton were surveyed. The number of microbiotic organisms were consistently low in coastal waters. Treatment for bacteria kill is recommended for all southeast Florida outfalls. A method for determining the percent treatment for each outfall is given. This report was submitted in fulfillment of Demonstration Project Grant WPD 165-01 (R-1) -67 under the sponsorship of the Water Quality Office, Environmental Protection Agency.

****Key words:** biological impact, water pollution, Florida coast

Food and Drug Administration

PRELIMINARY REPORT: COOPERATIVE OFFSHORE WATER QUALITY
STUDIES NEW YORK BIGHT

U.S. DHEW, Food & Drug Administration, Washington, DC
April-July, 1972

****Abstract**

This report covers studies aimed at gathering water quality data for the New York Bight area between land and the six mile radius sludge dump closure. Previous studies in this vicinity were centered around pollution from sludge and dredge spoil dumping activities. Other than water quality studies by New York within their territorial boundaries, little data was available to make sound judgement concerning classification of the area for shellfish harvesting purposes. The studies were aimed at determining the sanitary impact of liquid pollution sources under the most adverse conditions on offshore waters. Three studies were made in the Bight area to gather data in addition to that obtained in December, 1971 and January, 1972. Two studies were conducted in April, when New York City waste treatment plants were not chlorinating and one study was conducted in July during chlorination. The studies included both New York and New Jersey territorial waters and were made in cooperation with State agencies. The two studies in April generally confirmed the December 1971 and January 1972 data, although it is noted that water quality can fluctuate radically depending upon the various hydrographic and meteorological factors. Based on the available data, cooperative State-Federal shellfish closed areas were established.

****Key words:** New York Bight, water quality data, shellfish, liquid pollution

OCEAN DISPOSAL BIBLIOGRAPHY
SEPTEMBER 1976 REVISION

M. Grant Gross

ANALYSES OF DREDGED WASTES, FLY ASH, AND WASTE CHEMICALS -
NEW YORK METROPOLITAN REGION

Marine Sciences Research Center, St. U. of NY, Stony Brook,
NY 11790

Technical Report No. 7, October, 1970

****Abstract**

Chemical and physical properties were determined on wastes commonly transported by barge for disposal in coastal waters offshore from New York harbor. Dredged wastes (also called dredged spoils) were studied by analysis of harbor sediment (a major source) and wastes deposited in the "Mud Disposal Area". Chemical and physical properties of these wastes suggest that they commonly consist of about 20 per cent carbonaceous wastes (possibly sewage solids) mixed with lowcarbon river-borne silt (median grain size 30 microns) and an unknown amount of industrial wastes. Ash from coal-fired power generating plants was chemically similar to shale but contained appreciable amounts of mullite, a high temperature aluminosilicate mineral not found in sedimentary rocks. Waste chemicals analyzed had a wide range of chemical composition but were not adequately sampled to provide useful limits on their chemical and physical composition. Some samples of waste chemicals had high concentrations of such metals as Pb, Sn, and Zn. Additional work is needed to characterize waste chemicals discharged in the ocean. A preliminary budget of waste solids dumped in the New York Bight indicates that dredged wastes are a major source of oxygen-demanding substances and potentially troublesome metals. Certain metals, especially Ag and Pb, and the high carbon concentrations are promising as tracers in delineating distributions and subsequent movement of waste deposits in the region.

****Key words:** water pollution, New York Bight, chemical properties, physical properties, dredge wastes, waste chemicals, waste solids

M. Grant Gross

NEW YORK CITY - A MAJOR SOURCE OF MARINE SEDIMENT

Marine Sciences Research Center, St. U. of New York, Stony Brook, NY
Technical Report No. 2, September, 1969

****Abstract**

An average of 8.6 million tons per year of waste solids (excluding rubbish and floatable debris) was dumped in the coastal ocean near New York City and in western Long Island Sound between 1964 and 1968. This was apparently the largest single source of sediment entering directly into the Atlantic Ocean from North America. Waste solids derived primarily from dredging, construction and demolition activities in the metropolitan region

OCEAN DISPOSAL BIBLIOGRAPHY
SEPTEMBER 1976 REVISION

were dumped in areas where little modern sediment was accumulating. Considering only the waste coming from the core of the New York metropolitan region (population about 9 million), the average annual discharge was about 0.75 tons per person (equivalent to 4.5 pounds per person per day).

****Key words:** New York, solid waste, sediment

M. Grant Gross, Dewitt Davies

William Loeffler, Paul M. Lin

CHARACTERISTICS AND ENVIRONMENTAL QUALITY OF SIX NORTH SHORE

BAYS, NASSAU AND SUFFOLK COUNTIES, LONG ISLAND, NEW YORK

Marine Sciences Research Center, St. U. of New York, Stony

Brook, NY 11790

Technical Report No. 14, January, 1972

****Abstract**

This study was aimed toward an evaluation of the long-term environmental condition of the bays and harbors in a regional framework. A study of six selected bays on the North Shore of Long Island was undertaken to provide data needed for long-range planning in these areas. These bays were selected because they have exhibited symptoms of various environmental problems. The primary tasks of this study were (1) to summarize the pertinent technical literature not previously compiled, including data on climate, geology, ground water and seasonal variability of water quality; (2) to survey and assess water quality in the selected bays, emphasizing the summer 1971; (3) to survey sediment and waste deposits in these bays, assessing their present condition; and (4) to develop methods of using these deposits and water quality characteristics as indicators of long-term trends in environmental quality in the bays.

****Key words:** Long Island, New York, bays, planning, water quality, sediment, waste deposits

M. Grant Gross

PRELIMINARY ANALYSES OF URBAN WASTES, NEW YORK METROPOLITAN
REGION

Marine Sciences Research Center, St. U. of New York,

Stony Brook, NY

March, 1970

****Abstract**

Preliminary analyses were made of 17 sewage sludge samples from sewage treatment plants serving 11.9 million persons in the New York Metropolitan Region. The sludges consist of about 55 per cent organic matter. This organic matter accounts for about 55 percent of the total oxygen demand of the sludges. About 45 per cent of the sludge is aluminosilicate material, chemically

similar to shale. The sludge samples are enriched, compared to sedimentary rocks, soils, and organisms, in the following elements: chromium, copper, lead and tin. These elements are common industrial materials, and are known to be highly toxic to marine organisms; some are carcinogenic. Further studies are required to determine the chemical form in which they occur in the sludges and whether they are released to organisms or to sea water after dumping or deposition of the sludges. These preliminary analyses indicate semi-quantitative spectrochemical analyses may be useful for determining order-of-magnitude concentration of 24 elements commonly occurring in sewage sludges. Other techniques are required to detect other possible pollutants, with usable precision. Loss on ignition, an ashing technique, is useful for use in analysis of organic matter in sewage sludges not containing large amounts of hydrous aluminosilicates.

****Key words:**sewage sludge, water chemistry, analytical methods, New York

M. Grant Gross, John A. Black, Robert J. Kalin,
James R. Schramel, Raymond N. Smith
SURVEY OF MARINE WASTE DEPOSITS, NEW YORK METROPOLITAN REGION
Marine Sciences Research Center, St. U. of New York,
Stony Brook, NY 11790
Technical Report No. 8, April, 1971

****Abstract**

Reports on 122 square miles surveyed to determine distribution of waste deposits in New York Bight, and the total carbon contents and loss-on-ignition (volatile matter). Sample concentrations of chromium, copper, lead and silver, were compared to the distribution of carbon-rich deposits on the Continental Shelf. Atomic absorption spectrometric analyses was used on acid-extractable minor elements in waste deposits. Few groups of pollution-tolerant organisms were abundant in sediments from the inner portions of the New York Harbor. No living foraminifera were found in sediment from the East River. A few species were found in Western Long Island Sound. Ostracods were rare.

****Key words:** analytical methods, New York Bight, biological impact, benthic organisms

C. D. Hardy
MOVEMENT AND QUALITY OF LONG ISLAND SOUND WATERS 1971
Marine Sciences Research Center, St. U. of New York,
Stony Brook, NY 11790
Technical Report No. 17, November, 1972

****Abstract**

OCEAN DISPOSAL BIBLIOGRAPHY
SEPTEMBER 1976 REVISION

The hydrographic features of New York Bay, upper New York Bay, the East River, Long Island Sound, and Block Island Sound are described. Winter-formed bottom water exhibits a seasonal lag in warming in the Central Basin of Long Island Sound. The persistence into summer of this colder and denser bottom layer indicates limited mixing. The stagnation of this bottom water is promoted by the seasonal formation of a weak to moderate thermocline and the inhibition of exchange with Block Island Sound water by the presence of a submarine ridge. A heavy biological oxygen demand is imposed upon the bottom water by the introduction of oxidizable organic matter from the New York metropolitan area. The depletion of dissolved oxygen is correlated on an annual basis in accord with the frequency and strength of winds. In summer, prolonged periods of calm intensify the vertical stratification, causing seriously lowered dissolved oxygen concentrations in the bottom layer. Maximum concentrations of nutrients (ammonia, urea, orthophosphate) for the region were found in the upper East River, reflecting the fact that 43 percent of the sewage from the New York City municipal system discharges into the upper East River. Urea concentrations in the East River were higher than previously reported. The presence of urea at these concentrations reflects the untreated quality of sewage entering this water body. A two-layered transport system is proposed by which the net transport of East River water into Long Island Sound may be explained. This estuarine circulation provides a mechanism by which East River pollutants enter Long Island Sound.

****Key words:** Long Island Sound, hydrography, water quality

R. A. Horne, A. J. Mahler, R. C. Rossello
THE MARINE DISPOSAL OF SEWAGE SLUDGE AND DREDGE SPOIL IN
THE WATERS OF THE NEW YORK BIGHT
National Technical Info Service, Springfield, VA 22151
January 29, 1971

****Abstract**

Dumping areas for sewage sludge, dredge spoil, cellar dirt, acid waste, and toxic chemicals were established nearly half a century ago in the New York Bight, with the effects of the first two on the marine environment of the Bight being the subject for this report. A detailed description of the topography, currents, physical-chemical properties, and resource value of the Bight waters is presented. One section includes a discussion on the sewage sludge and dredge spoil dumping areas, along with detailed analyses of the quantities of wastes involved in the dumping activities and the physical-chemical properties of the wastes. The physical, chemical, and biological effects of the wastes on the marine environment are discussed; some actual and potential

OCEAN DISPOSAL BIBLIOGRAPHY
SEPTEMBER 1976 REVISION

effects of the pollutants on marine life outside of the dumping areas, and human life surrounding the Bight are also discussed. An extensive reference list is included, along with 36 graphs, maps, and diagrams, and 27 tables.

****Key words:** New York Bight, dredge spoil, sludge disposal, physical effects, chemical effects, biological effects, pollutants

U.S. Dept. of Interior
EVALUATION OF INFLUENCE OF DUMPING IN THE NEW YORK BIGHT WITH A
BRIEF REVIEW OF GENERAL OCEAN POLLUTION PROBLEMS

U.S. Dept. of Interior, Washington, DC

June 24, 1970

****Abstract**

In a memorandum of February 17, 1970, to appropriate Federal officials, Dr. Leslie L. Glasgow, Assistant Secretary for Fish and Wildlife, Parks, and Marine Resources of the Department of the Interior, appointed an Ad Hoc Committee to review the practice of ocean disposal in the New York Bight and to make appropriate recommendations. The purpose of this Committee was not to prejudge ongoing and indepth studies now being conducted by various agencies. Rather, it was to bring together pertinent information and opinions to permit a preliminary assessment of the problem and to consider the need for any Federal action that might set the future pattern throughout our coastal areas. The Committee developed a series of specific objectives for review of the problem in the New York Bight, plus several other objectives that related to the general problem of ocean disposal nationwide. These were, as follows: Pollution in the New York Bight: (1) Summarize major sources of pollution, (2) Summarize current Federal and non-Federal activities related to pollution control and abatement; (3) evaluate potential threats from pollution to the proposed Gateway National Recreation Area, (4) Summarize other problems associated with pollution in the New York Bight, (5) List alternatives to dumping at present sites and associated problems, (6) Proposed interim recommendations. Ocean pollution USA: (1) Review Federal responsibilities and activities regarding ocean pollution and abatement, (2) Summarize state and local authorities, responsibilities, and actions to control ocean dumping, (3) Consider critical problems and conditions around other urban centers, (4) Prepare interim guidelines for Corps of Engineers.

****Key words:** New York Bight, ocean pollution, responsibilities, authorities

OCEAN DISPOSAL BIBLIOGRAPHY
SEPTEMBER 1976 REVISION

U.S. Dept. of Interior, FWPCA
EFFECTS OF POLLUTION ON WATER QUALITY PERDIDO RIVER AND BAY,
ALABAMA AND FLORIDA
FWPCA, Southeast Water Laboratory, Athens, Georgia
January, 1970

****Abstract**

This study evaluates water quality conditions and waste sources in Perdido Bay, Alabama and Florida. An investigation of waste sources and a detailed study of the bay and its major tributaries were conducted during the period of September 2-17, 1969. This report presents an evaluation of the data collected during the study.

****Key words:** water pollution, municipal waste, coastal zone management

U.S. Dept. of Interior, FWQA
BACKGROUND PAPERS PREPARED FOR THE NASCO-NAECOE COASTAL WASTE
MANAGEMENT STUDY SESSION
National Academy of Sciences, Washington, DC
NTIS PB-198032, 1969

****Abstract**

This collection of background papers in coastal wastes management is a supplement to the NAS-NAE report, "Wastes Management Concepts for the Coastal Zone Requirements for Research and Investigation. The report itself was prepared under the auspices of the Committee on Oceanography of the National Academy of Sciences (NASCO) and the Committee on Ocean Engineering of the National Academy of Engineering (NAECOE). The study session was convened for the purpose of reviewing the state-of-the-art and knowledge concerning the disposal of wastes in the coastal environment and identifying the areas in which expansion of scientific and engineering knowledge is required for rational evaluation of waste management problems in the coastal zone. The papers cover various topics on monitoring activities and physical, chemical and biological effects.

****Key words:** waste management, coastal zone, monitoring, physical, chemical, biological

Interstate Electronics Corporation
A NATIONAL OVERVIEW OF EXISTING COASTAL WATER QUALITY MONITORING
Interstate Electronics Corp., Oceanics Dept., Anaheim, CA 92803
Report 445-A, December 6, 1972

****Abstract**

An overview of coastal water quality monitoring activity is presented, including an examination of related factors such as water quality standards, population, waste discharges, ocean

OCEAN DISPOSAL BIBLIOGRAPHY
SEPTEMBER 1976 REVISION

dumping, a survey of data banks at the national level and others. This broadly based information, supported by detailed Phase B data from selected "case study" areas, will be used in the formulation of a national plan for monitoring coastal water quality (Phase C). Comparison with detailed survey data from the six case study areas of Phase B revealed a considerably higher number of active monitoring stations than was apparent from the national inventory. This difference in information was used to extrapolate to a level of monitoring in the coastal zone, which is probably more realistic. Data from several inventories pertinent to coastal zone water quality is summarized to the state and EPA regional level with extensive descriptions contained in appendices. In general, no significant correlative relationship was found between monitoring activities and any of the other factors studied. However, a large amount of data was accumulated, summarized and presented in a form useful in the future management and planning of coastal zone water quality monitoring networks.

****KEY WORDS:** coastal zone, monitoring, water quality, ocean dumping, data banks, water quality standards, information systems

Interstate Electronics Corporation
Environmental Engineering Division, Anaheim, CA
A SURVEY OF THE FARALLON ISLANDS RADIOACTIVE WASTE DISPOSAL SITE,
FOR U.S. ENVIRONMENTAL PROTECTION AGENCY
NTIS, Springfield, VA
NTIS PB-241 300/3ST, 23 pp., February 1975

****Abstract**

The report is a summary of the August 1974 survey of a waste disposal site near the Farallon Islands that had been used between 1946 and 1966 for the disposal of radioactive waste materials. This survey was the first in which a deepwater (850) meter radioactive waste disposal site had been successfully relocated and subjected to a comprehensive survey. The U.S. Navy's CURV III, an unmanned remote controlled submersible, was used to investigate the condition of the containers. The report contains site location chart and high quality benthic color plates showing the condition of the containers.

****Key words:** waste disposal, radioactive wastes, North Pacific Ocean, Farallon Islands, site surveys, radiation hazards, monitors, radioactivity, underwater vehicles, underwater photography

OCEAN DISPOSAL BIBLIOGRAPHY
SEPTEMBER 1976 REVISION

Interstate Electronics Corporation, Oceanics Division,
Anaheim, CA

BIBLIOGRAPHY ON OCEAN WASTE DISPOSAL

NTIS, Springfield, VA

NTIS PB-224 452/3, 114 pp., May 1973

****Abstract**

This research bibliography is restricted to documents relevant to the field of ocean waste disposal. It is primarily limited to recent publications, with emphasis on those published between January 1968 through April 1973.

****Key words:** water pollution - oceans, bibliographies - water pollution, solid waste disposal - oceans

Interstate Electronics Corporation

COASTAL ZONE WATER QUALITY MONITORING IN SELECTED GEOGRAPHIC AREAS

Interstate Electronics Corp., Oceanics Dept., Anaheim, CA 92803

Report No. 445-B5, 1973

****Abstract**

This report was prepared for the U.S. Environmental Protection Agency. It presents a summary of field case study findings in six geographic areas: New York Bight; Charleston, South Carolina; Biscayne Bay; Pensacola; San Francisco, California; and the Oregon-Washington Coastline. The purpose of the investigations was to survey specific coastal zone areas to obtain detailed information on coastal zone water quality monitoring. Included in this report are descriptions of coastal zone water quality monitoring activities in these areas and a representative design for an initial information network which would incorporate existing monitoring activities into an efficient data-information system. The report presents specific findings in each of the case study areas along with an analysis of the socio-economic factors of coastal zone water quality. An extensive glossary of abbreviations and acronyms pertinent to coastal zone water quality monitoring is provided.

****Key words:** coastal zone, monitoring, water quality, information systems

Interstate Electronics Corporation

Environmental Engineering Division, Anaheim, CA

GUIDELINES FOR DEVELOPMENT OF CRITERIA FOR CONTROL OF OCEAN
WASTE DISPOSAL

NTIS, Springfield, VA

NTIS PB-233 019/9, 99 pp., February 1974

****Abstract**

The report is the final one of a group of successive volumes related to a survey of ocean waste disposal practices in six

OCEAN DISPOSAL BIBLIOGRAPHY
SEPTEMBER 1976 REVISION

major coastal areas of the United States. It specifically addresses the problems associated with disposal site selection, criteria development and control and monitoring of disposal operations. The purpose of the study, of which this is the final report, was to assist the Ocean Disposal Program of the Environmental Protection Agency in the development of criteria for the control of ocean waste disposal.

****Key words:** water pollution control, oceans, waste disposal, coastal regions, monitors, spoil, dredging, industrial wastes, sewage, outfall sewers, sites, New York Bight, South Carolina, Gulf Coast, California, Puget Sound

Interstate Electronics Corporation
Environmental Engineering Division, Anaheim, CA
EXECUTIVE SUMMARY, DEVELOPMENT OF CRITERIA TO CONTROL OCEAN
DUMPING

NTIS, Springfield, VA

NTIS PB-233 018/1, 18 pp., January 1974

****Abstract**

The report provides a brief executive summary of the ocean waste disposal study undertaken by Interstate Electronics Corporation. This special study concentrated on waste disposal practices in six geographic areas of the United States.

****Key words:** water pollution control, oceans, waste disposal, coastal regions, spoil, dredging, industrial wastes, sewage, outfall sewers, sites, New York Bight, South Carolina, Gulf Coast, California, Puget Sound

Interstate Electronics Corporation
Environmental Engineering Division, Anaheim, CA
NAVIGATION AIDS FOR OCEAN WASTE DISPOSAL CONTROL
NTIS, Springfield, VA

NTIS PB-230 945/8, 33 pp., February 1974

****Abstract**

The types of navigation aids in existence and in use along the U.S. coastlines were reviewed to determine their suitability for use in control of ocean waste disposal operations. This monograph presents a description and summary of the capabilities of the most prominent systems. A short list of selected current information sources is provided.

****Key words:** solid waste disposal, navigational aids, oceans, Loran, Decca, radar, radio direction finders, hyperbolic navigation, reviews

OCEAN DISPOSAL BIBLIOGRAPHY
SEPTEMBER 1976 REVISION

Interstate Electronics Corporation
Environmental Engineering Division, Anaheim, CA
RADIOACTIVE WASTE DISPOSAL ACTIVITIES IN THE VICINITY OF THE
FARALLON ISLANDS, FOR THE U.S. ENVIRONMENTAL PROTECTION AGENCY
NTIS, Springfield, VA
NTIS PB-237 741/4ST, 44 pp., November 1974

****Abstract**

This report presents the results of a study undertaken to search for and consolidate historic information regarding the disposal of radioactive waste at locations near the Farallon Islands in the waters of the Pacific Ocean. Information includes an inventory of the quantities of materials dumped, approximate locations of the three known sites, a summary of general oceanographic studies in the area, and a bibliography of related documents.

****Key words:** radioactive wastes, explosives, solid waste disposal, North Pacific Ocean, Farallon Islands, marine biology, containers, water pollution, ammunition, bibliographies, sediments

R. J. Johnson, V. T. McCauley
TECHNICAL REQUIREMENTS FOR CONTROL OF OCEAN DUMPING
Marine Technology Society, Washington, DC 20036
September 11-13, 1972

****Abstract**

The base for responsible control of ocean dumping must be formed on knowledge about human needs, human activities, waste materials, the marine environment, and communities of marine organisms. Collecting, ordering, analyzing, and interpreting that information to implement an orderly transition from uncontrolled to controlled ocean dumping is a major undertaking. Technical requirements to control ocean dumping must be effective in the short term abatement requirements, but flexible enough to cope with the future changes that may be expected in our society.

****Key words:** technical requirements, control of dumping

S. T. Kelly
COASTAL ZONE WATER QUALITY MONITORING IN THE CHARLESTON,
SOUTH CAROLINA AREA
Interstate Electronics Corp., Oceanics Dept., Anaheim, CA 92803
Report No. 446-B2, 1973

****Abstract**

This report was prepared for the U.S. Environmental Protection Agency. It presents the findings of a field case study of the Charleston, South Carolina area. Purpose of the study was to determine the extent of, and need for, coastal zone water quality

OCEAN DISPOSAL BIBLIOGRAPHY
SEPTEMBER 1976 REVISION

monitoring in the area. The report is a compendium of information including tabulations of organizations engaged in coastal zone water monitoring, their laboratory capabilities, data needs and internal organizations. Separate sections are devoted to discussions of socio-economic problems associated with coastal zone water quality and recommendations for design and implementation of a coordinated coastal zone water quality monitoring network. A selected bibliography and list of personnel concerned with coastal zone water quality monitoring in the area is included.

****Key words:** Charleston SC, coastal zone, water quality, monitoring, information systems

H. J. Krock, David T. Mason

BIOASSAYS OF LOWER TROPHIC LEVELS

U. of California, Sanitary Engineering Research Lab, Berkeley, CA
Vol. VI, SERL Report No. 71-8, October, 1971

****Abstract**

The purpose of this investigation was to develop and apply bioassay methods which would measure the effects of toxicants and stimulants on native receiving water communities of organisms. Two separate but complementary bioassay methods were developed and used. The first employed organisms which develop on artificial substrates, or aufwuchs communities, as the bioassay subject with the bioassay response measurements being photosynthesis and respiration rate changes. These were made by measuring dissolved oxygen concentration changes in light and dark bottles in 2 to 4 hour tests. The second method used the photosynthesis rate changes of native plankton as indicated by the uptake rate of carbon-14 labeled bicarbonate. The plankton bioassay method was found to be more sensitive but less comprehensive than the aufwuchs community bioassay.

****Key words:** biological impact, bioassay, toxicants

Miles B. Lewis

COASTAL ZONE WATER QUALITY MONITORING IN THE BISCAYNE BAY AREA
Interstate Electronics Corp., Oceanics Dept., Anaheim, CA 92803
Report No. 445-B3, 1973

****Abstract**

This report was prepared for the U.S. Environmental Protection Agency. It presents the findings of a field case study of the Biscayne Bay Area. Purpose of the study was to determine the extent of, and need for, coastal zone water quality monitoring in the area. The report is a compendium of information including tabulations of organizations engaged in coastal zone water monitoring, their laboratory capabilities, data needs and

OCEAN DISPOSAL BIBLIOGRAPHY
SEPTEMBER 1976 REVISION

internal organization. Separate sections are devoted to discussions of socio-economic problems associated with coastal zone water quality and recommendations for design and implementation of a coordinated coastal zone water quality monitoring network. A selected bibliography and list of personnel concerned with coastal zone water quality monitoring in the area is included.

****Key words:** Biscayne Bay, coastal zone, water quality, monitoring, information systems

Massachusetts Institute of Technology
ECONOMIC ASPECTS OF SOLID WASTE DISPOSAL AT SEA
National Technical Information Service, Springfield, VA
128 pp., Report No. MCS-71-68, September, 1970

****Abstract**

This report concentrates on the economics (in a sense wide enough to include all costs and benefits) associated with the disposal of the solids normally found in the refuse collected by large coastal cities. It compares the market costs of various disposal alternatives and derives, through present value analysis, unit market disposal costs for sanitary land fill via rail haul, incineration on land, dumping of compacted bales at sea, and incineration at sea, pointing out the potential ecological problems inherent in each system, and the relevant available information.

****Key words:** economics, solid waste, disposal alternatives

Edwin B. May
ENVIRONMENTAL EFFECTS OF HYDRAULIC DREDGING IN ESTUARIES
Alabama Dept. of Conservation and Natural Resources,
Dauphin Island, AL 36528
Bulletin No. 9, 1973

****Abstract**

Hydraulic channel and shell dredging and open water spoil disposal have little significant immediate effect on water quality in Alabama estuaries. Almost all of the sediment discharged by dredges settles very rapidly and is transported by gravity along the bottom as a separate flocculated density layer and potentially harmful components of the mud are not dissolved into the water. There is a limited, temporary reduction in benthic organisms in areas affected by dredging. Spoil piles from channel dredges can indirectly affect the ecology and usefulness of estuaries by interfering with water circulation and altering salinity. The basic hydrological concepts which determine the effects of dredging should be applicable in other areas. Extensive regulations apparently are not necessary to

OCEAN DISPOSAL BIBLIOGRAPHY
SEPTEMBER 1976 REVISION

protect water quality in open water dredging situations but spoil disposal practices from channel dredges must be reconsidered and appropriate new disposal plans developed.

****Key words:** hydraulic dredging, estuaries, dredge spoil

Charles F. McFarlane

COASTAL ZONE WATER QUALITY MONITORING IN THE SAN FRANCISCO BAY AREA
Interstate Electronics Corp., Oceanics Dept., Anaheim, CA 92803

Report No. 445-B, 1973

****Abstract**

This report was prepared for the U.S. Environmental Protection Agency. It presents the findings of a field case study of the San Francisco Bay area. Purpose of the study was to determine the extent of, and need for, coastal zone water quality monitoring in the area. The report is a compendium of information including tabulations of organizations engaged in coastal zone water monitoring, their laboratory capabilities, data needs and internal organization. Separate sections are devoted to discussions of socio-economic problems associated with coastal zone water quality and recommendations for design and implementation of a coordinated coastal zone water quality monitoring network. A selected bibliography and list of personnel concerned with coastal zone water quality monitoring in the area is included.

****Key words:** San Francisco Bay, coastal zone, water quality, monitoring, information systems

Charles F. McFarlane

Interstate Electronics Corporation, Environmental Engineering
Division, Anaheim, CA

OCEAN WASTE DISPOSAL PRACTICES IN METROPOLITAN AREAS OF
CALIFORNIA, EPA REPORT 4460C1635

NTIS, Springfield, VA

NTIS PB-230 944/1, 95 pp., February 1974

****Abstract**

This report presents the results of a fact-finding survey of ocean waste disposal practices in the Southern California and San Francisco metropolitan areas of California. It is a portion of an extensive study on ocean waste disposal practices in selected areas of the United States. Information was collected by field interviews and survey techniques and supplemented by literature and data studies. The sum of the information was used to establish a data base for the development of guidelines and criteria for the control of ocean waste disposal. A short bibliography of selected current references is provided.

****Key words:** solid waste disposal, California, oceans, metropolitan

OCEAN DISPOSAL BIBLIOGRAPHY
SEPTEMBER 1976 REVISION

areas, surveys, industrial wastes, sewage, spoil, water pollution, urban areas

D. A. Milne

COASTAL ZONE WATER QUALITY MONITORING IN OREGON AND WASHINGTON
Interstate Electronics Corp., Oceanics Dept., Anaheim, CA 92803
Report No. 445-B6, 1973

****Abstract**

This report was prepared for the U.S. Environmental Protection Agency. It presents the findings of a field case study of Oregon and Washington. Purpose of the study was to determine the extent of, and need for, coastal zone water quality monitoring in the area. The report is a compendium of information including tabulations of organizations engaged in coastal zone water monitoring, their laboratory capabilities, data needs, and internal organization. Separate sections are devoted to discussions of socio-economic problems associated with coastal zone water quality and recommendations for design and implementation of a coordinated coastal zone water quality monitoring network. A selected bibliography and list of personnel concerned with coastal zone water quality monitoring in the area is included.

****Key words:** Oregon, Washington, coastal zone, water quality, monitoring, information systems.

National Canners Association Research Foundation
OCEAN DISCHARGE OF NON-TOXIC FOOD PROCESSING SOLIDS RESIDUALS
Nat'l Canners Asso. Research Foundation, Berkeley, CA 94710
D-2489, January 28, 1972

****Abstract**

An extensive program was undertaken to gather data on the ocean discharge of fruit processing solid residuals. Two monitoring trips were made to collect information on the quality of the receiving waters with respect to various distances behind the barge and at various depths. An additional trip was made to collect information on the quality of the receiving waters from a stationary location with respect to time and at various depths. Fish bioassays were conducted to determine the presence or absence of acutely toxic compounds. The bioassays were made at three ratios of solids to water, the highest concentrations being 10 times that calculated to be present in the receiving waters at a given depth. The waste was characterized for solids content, settleable, total, suspended and volatile, short and long term biochemical oxygen demand, heavy metals, agricultural residues and a proximate analysis for protein, carbohydrates and fat.

****Key words:** cannery wastes, bioassays, monitoring, water

OCEAN DISPOSAL BIBLIOGRAPHY
SEPTEMBER 1976 REVISION

quality

National Industrial Pollution Control Council
DEEP OCEAN DUMPING OF BALED REFUSE
U.S. Government Printing Office, Washington, DC
February, 1971

****Abstract**

No comprehensive studies have been completed on the effect of refuse dumping on the ocean environment. There have been no long-term tests on the behaviour of municipal solid waste on the ocean floor which measure chemical or biological degradation rate or the effect of such wastes on the environment. Municipal refuse does not contain the high concentration of nutrients, particularly phosphates and nitrates, which is characteristic of sewage or the high concentration of toxic elements characteristic of industrial chemical wastes. Moreover, municipal refuse offers the possibility of packaging into compressed bales which can be deposited in specific selected sites in the deep oceans where biological activity is minimal. Possible pollution hazards in such a disposal system include the floating of components of refuse during the dumping operation or their refloating at a later date, and unacceptable interference with the biological systems of the ocean. A properly designed series of experiments could develop acceptable methods for the disposal of municipal refuse in the oceans. The United States, with its pressing municipal refuse disposal problems, should initiate such experiments.

****Key words:** solid waste, baled, refuse

Stewart B. Nelson, Ronald C. Tipper
OCEAN DUMPING--A RATIONAL APPROACH TO AN INTERNATIONAL PROBLEM
Office of the Oceanographer of the Navy, Alexandria, VA
September, 1971, pp. 317-320

****Abstract**

This paper provides a detailed look at the overall problem of ocean dumping and presents discussion on U.S. regulations, international efforts, and an approach to the problem of ocean dumping. A systematic approach, starting with identification of types of wastes, determination of environmental effects, and providing specifications for disposal is reviewed. Enactment of legislation, identification of regulatory authority, and the establishment of a workable enforcement system are also discussed.

****Key words:** legislation, regulations, environmental effects, wastes

OCEAN DISPOSAL BIBLIOGRAPHY
SEPTEMBER 1976 REVISION

New Jersey Department of Environmental Protection
OCEAN DISPOSAL CONTROL REGULATION BASIS AND BACKGROUND DOCUMENT
New Jersey Dept. of Environmental Protection, Trenton, NJ 08625
June, 1972

****Abstract**

The ocean disposal of wastes off the shores of New Jersey is an environmental problem which is growing in scope and severity. Each year almost five million tons of sewage sludge and toxic wastes are dumped into the ocean waters off the coastline of the State. This makes our shore the most popular dumping site on the eastern seaboard. Governor Cahill has called ocean dumping "a primitive, insensitive, and completely unacceptable method of waste disposal." In fact, it is not waste disposal. It is waste relocation. The proposed regulations governing ocean disposal form part of a larger package of measures taken to protect, enhance and preserve our vital coastal resources. We recognize that the steps required in the regulations are not perfect. We regard the requirement that undigested sewage sludge, chemical wastes, and polluted dredge spoil be disposed of in waters deeper than 1000 fathoms as an interim measure only. The long term answer is the development of land based alternative methods to reuse, recycle, or treat these pollutants. The regulations proposed, by requiring wastes to be disposed of further out to sea and hence at greater cost should spur the development of the necessary alternatives, and protect the littoral environment while the alternative methods are implemented.

****Key words:** policy, New Jersey, control, regulation

R. Nuzzi, et al
THE OCEANOGRAPHY OF THE NEW YORK BIGHT: PHYSICAL, CHEMICAL,
BIOLOGICAL

New York Ocean Science Laboratory, Montauk, NY
Volumes I, II, Technical Report No. 0017, February, 1973

****Abstract**

This report presents data collected from two cruises into the New York Bight south of East Rockaway Inlet. The program was designed to observe the spatial and temporal distribution of phytoplankton, zooplankton, fish, and benthic fauna, as well as various chemical and physical parameters, over a complete tidal cycle, around a proposed offshore airport site.

****Key words:** New York Bight, physical, chemical, biological, phytoplankton, zooplankton, fish, benthic fauna

OCEAN DISPOSAL BIBLIOGRAPHY
SEPTEMBER 1976 REVISION

Oceanographer of the Navy
ENVIRONMENTAL CONDITION REPORT FOR NUMBERED DEEP WATER
MUNITIONS DUMP SITES
Office of the Oceanographer of the Navy, Alexandria, VA 22314
April, 1972

****Abstract**

The disposal of obsolete munitions at sea and the potential effects of these actions on the quality of the environment is a matter of concern to both the Navy and the public. In April 1971, the Oceanographer of the Navy was tasked by the Chief of Naval Operations to institute an environmental program concerning deep water dump sites. Specifically the Oceanographer was directed to: (1) Acquire through environmental studies, ecological and oceanographic information to enable the preparation of comprehensive environmental condition reports on representative past deep water dump sites; (2) Develop criteria for selection of future dump sites should such action become necessary; (3) Determine what monitoring efforts will be required for future sites. The results of this program, which involved the joint efforts of representatives of the various Navy laboratories and academic institutions, are presented herein.

****Key words:** munitions dump sites, environmental effects, management programs.

Oceanographer of the Navy
ENVIRONMENTAL EFFECTS OF OVERBOARD DISCHARGE OF BIO-DEGRADABLE
WASTES IN THE OPEN OCEAN
Office of the Oceanographer of the Navy, Alexandria, VA 22314
November, 1971

****Abstract**

This report discusses the overboard discharge as the only waste disposal method available to most Navy ships underway. In this study the effects of overboard discharge are considered in order to evaluate proposed actions. The study is concerned with the effects of dumping wet garbage, sanitary sewage, and related paper products, which are, by definition, biodegradable. The dumping area considered is the open ocean, defined as being outside of 12 miles from shore.

****Key words:** waste discharge, garbage, sewage, open ocean

Joel S. O'Connor, Orville W. Terry
Nassau-Suffolk Regional Planning Board
THE MARINE WETLANDS OF NASSAU AND SUFFOLK COUNTIES NEW YORK
Marine Sciences Research Center, St. U. of New York,
Stony Brook, NY
April, 1972

OCEAN DISPOSAL BIBLIOGRAPHY
SEPTEMBER 1976 REVISION

****Abstract**

Tidal marshlands cover 9,400 acres in Nassau County, Long Island and over 12,000 acres in Suffolk County. Over 4,400 acres of tidal marshes in the two counties have disappeared since the last comprehensive survey of 1964. Almost all of this loss was in Suffolk County, where about 25 percent of Suffolk's 1964 acreage has been lost. Major changes in dominant marsh vegetation since the late 1930's seem largely due to selective filling by man of the higher marshlands. Essentially all of the remaining Nassau County marshlands are owned by some level of government; from 34 to 47 percent of Suffolk County marshlands are still privately owned. Evidence is summarized about the close interdependence of marsh flora and fauna, the fauna of adjacent subtidal areas, and many wide-ranging fishes of significance to both commercial and sport fishing interests. The long-term cumulative effects of man-made alterations in wetlands are more important planning considerations than the localized influences of individual wetland alterations.

****Key words:** tidal marshes, wetlands, fauna, fishes, planning

Gary O'Neal, Jack Sceva

THE EFFECTS OF DREDGING ON WATER QUALITY IN THE NORTHWEST
Office of Water Programs, EPA, Region X, Seattle, Washington
July, 1971

****Abstract**

This report is concerned with the effects of dredging on water quality in the northwest. The study was planned and carried out to provide background data on river bottom materials, operating characteristics of dredging equipment, and spoil disposal practices as an aid in improving the adequacy of the permit review system.

****Key words:** dredge spoil, dredging equipment, water quality

W. Owen, R. Benoit, L. Kornreich

OCEAN DISPOSAL OF SANITARY WASTES

Vast Incorporated, Hartford, Conn. 06106

Technical Report 67-76:6-71 (Unpublished Manuscript)

June 23, 1971

****Abstract**

The objective of this report is to provide an introduction to waste disposal at sea as transported: (1) directly by ocean outfall pipe and (2) by barge or ship transport. The types of solid and liquid wastes to be considered are those resulting from the various types of sewage treatment, both traditional and advanced. Emphasis will be given to ocean outfall site selection, to environmental impact, and to the effects of heavy

OCEAN DISPOSAL BIBLIOGRAPHY
SEPTEMBER 1976 REVISION

metals, pathogenic organisms, and persistent substances as they relate to the food chain.

****Key words:** solid wastes, liquid wastes, environmental impact, biological impact, site selection

President's Water Pollution Control Advisory Board
PUBLIC HEARING ON OCEAN DUMPING
President's Water Pollution Control Advisory Board,
New York, NY
September, 1972

****Abstract**

The President's Water Pollution Control Advisory Board met in New York City from September 26-29, 1972 to explore and make recommendations to the Administrator of the Environmental Protection Agency, and in turn the President on the subject of ocean disposal as a national issue. Based on briefings by representatives of Federal, State and local agencies, visits to ocean dumping sites in the New York Bight and a full day of public testimony from experts the Board concluded that unrestricted dumping poses real problems, but there is some evidence indicating possible beneficial uses of wastes dumped in the ocean.

****Key words:** New York Bight, public hearing, beneficial uses

George A. Rounsefell
ECOLOGICAL EFFECTS OF OFFSHORE CONSTRUCTION
Journal of Marine Science, Marine Science Institute
U. of Alabama, Bayou La Batre, AL
Volume 2, No. 1, 1972

****Abstract**

An evaluation of current knowledge of the probable ecological effects of various type of offshore construction reveals slight danger from the majority of construction programs. The greatest dangers lie in the placement of artificial islands within or too closely adjacent to estuaries where they can significantly effect water exchange, and in the proliferation of water cooled nuclear power plants. Perhaps the most pressing need for ultimate human survival is the further development of power from natural forces to replace power from nuclear and fossil fuel sources.

****Key words:** offshore construction, ecological effects

S. B. Saila, S. D. Pratt, T. T. Polgar
DREDGE SPOIL DISPOSAL IN RHODE ISLAND SOUND
University of Rhode Island, Kingston, RI
1972

OCEAN DISPOSAL BIBLIOGRAPHY
SEPTEMBER 1976 REVISION

****Abstract**

This study, which was carried out between March and September, 1970, was designed to update physical observations, to examine aspects of dredge spoil dumping not explored in a previous study, and to reach general conclusions about the response of benthic invertebrates to environmental disturbances. The contracted objectives were (1) to reassess by bathymetry the observed distribution of spoil material after 5.5 million cubic yards had been discharged on the dump site; (2) to relate observations of the speed and direction of bottom currents in the vicinity of the site to be observed and potential spoil movements, and (3) to make observations on the species composition and abundance of benthic invertebrates on the dump site and surrounding areas, to assess the effects of the spoil dumping on these animals, and to predict the nature of recovery of the area after dumping ceases.

****Key words:** dredge spoil, Rhode Island Sound, biological effects, benthic invertebrates

National Environmental Satellite Service

A PROPOSED AEROSPACE REMOTE SENSING PLAN FOR THE NEW YORK BIGHT MARINE ENVIRONMENT

National Environmental Satellite Service, NASA, Washington, DC
April 6-7, 1973

****Abstract**

The general objectives of the New York Bight remote sensing research investigation is to expand the knowledge of the coastal marine processes within this system. Specific primary objectives are to be used as guidelines. This will be accomplished by the detection and observation of surface and near-surface water mass discontinuities which are indicative of one or more physical parameters. The accuracy and reliability of these observations and parameter indicators for describing the surface fluid flow dynamics in this coastal zone will be established.

****Key words:** New York Bight, fluid flow dynamics, coastal zone remote sensing

D. D. Smith, R. P. Brown

AN APPRAISAL OF OCEANIC DISPOSAL OF BARGE-DELIVERED LIQUID AND SOLID WASTES FROM U.S. COASTAL CITIES

U.S. Government Printing Office, Washington, DC
pp. 119, 1971

****Abstract**

The results of a field survey of 20 U.S. coastal cities to appraise the national status of oceanic disposal of solid wastes and industrial sludges from ships and barges is presented. The work was carried out by the Applied Oceanography Division of the

OCEAN DISPOSAL BIBLIOGRAPHY
SEPTEMBER 1976 REVISION

Dillingham Corporation from June 1968 to October 1969, under contract with the Solid Waste Management Office, EPA. The inventory of solid wastes and industrial sludges included construction and demolition debris, dredge spoils, sewage sludge, and spent acids. The cities included in this inventory were Seattle, Portland, San Francisco, Los Angeles, San Diego, Galveston, Texas City, Houston, Port Arthur, Beaumont, New Orleans, Pascagoula, Mobile, St. Petersburg, Charleston, Norfolk, Baltimore, Philadelphia, New York and Boston. Current marine disposal operations, environmental effects of barging wastes to sea, monitoring of marine waste disposal operations, and institutional factors and recommendations are discussed. Five appendices are included concerning: the standard questionnaire, characteristics of marine waste disposal areas, the marine environment and solid wastes, a literature review of waste disposal in the marine environment, and legal aspects of waste disposal at sea.

****Key words:** coastal, liquid wastes, solid wastes, inventory

Donald C. Speed

COASTAL ZONE WATER QUALITY MONITORING IN THE PENSACOLA AREA
Interstate Electronics Corp., Oceanics Dept., Anaheim, CA
Report No. 445-B4, 1973

****Abstract**

This report was prepared for the U.S. Environmental Protection Agency. It presents the findings of a field case study of the Pensacola, Florida area. Purpose of the study was to determine the extent of, and need for, coastal zone water quality monitoring in the area. The report is a compendium of information including tabulations of organizations engaged in coastal zone water monitoring, their laboratory capabilities, data needs and internal organization. Separate sections are devoted to discussions of socio-economic problems associated with coastal zone water quality and recommendations for design and implementation of a coordinated coastal zone water quality monitoring network. A selected bibliography and list of personnel concerned with coastal zone water quality monitoring in the area is included.

****Key words:** Pensacola, water quality, monitoring, coastal zone, information systems

Donald C. Speed

COASTAL ZONE WATER QUALITY MONITORING IN THE CALCASIEU, LOUISIANA AREA
Interstate Electronics Corp., Oceanics Dept., Anaheim, CA 92803
Report No. 445-B8, 1973

OCEAN DISPOSAL BIBLIOGRAPHY
SEPTEMBER 1976 REVISION

****Abstract**

This report was prepared for the U.S. Environmental Protection Agency. It presents the findings of a field case study of the Calcasieu, Louisiana area. Purpose of the study was to determine the extent of, and need for, coastal zone water quality monitoring in the area. The report is a compendium of information including tabulations of organizations engaged in coastal zone water monitoring, their laboratory capabilities, data needs and internal organization. Separate sections are devoted to discussions of socio-economic problems associated with coastal zone water quality and recommendations for design and implementation of a coordinated coastal zone water quality monitoring network. A selected bibliography and list of personnel concerned with coastal zone water quality monitoring in the area is included.

****Key words:** Calcasieu, Louisiana area, water quality, monitoring, coastal zone, information systems

Sperry Rand Corporation

SYSTEM STUDY FOR SURVEILLANCE OF OCEAN DUMPING OPERATIONS

Sperry Systems Management Div., Sperry Rand Corp., Great Neck, NY
Publication No. GB-2500-1072 (NP), September, 1971

****Abstract**

This report describes a study of surveillance of Ocean Dumping Operations in the New York Bight. General requirements, system approaches and system specifics are discussed. Applicable candidate systems are described and are rated using customized evaluation and analysis techniques, including consideration of total cost of ownership. The "preferred" system thus defined is described in the text and in appended hardware procurement and installation specifications. The preferred system utilizes Loran A for position fixing, draft sensing for detecting the occurrence of dump, and means for recording these as well as important events. For maximum application flexibility, a dump detection subsystem is added to a basic system. The basic system is called "LEPS" (for Loran-Events-Printer-System). When a more positive sensing of dump is added on the same vessel, the total system is called "DELPS" (for Draft-Events-Loran-Printer-System). When the dump sensing occurs on a towed barge or scow, the equipment on the towed vessel is called "SIDS" (for Scow, Indicating Draft System). The basic system is contained in a single "black-box", requires minimal vessel preparation, and has the advantages of transportability in that it can be placed aboard a vessel upon short notice. No system configuration requires a connection between a towed dumper and the towing tug. Furthermore, the preferred system requires no major development effort. The system concept involves the recording every six minutes of vessel

OCEAN DISPOSAL BIBLIOGRAPHY
SEPTEMBER 1976 REVISION

position as determined by automatic tracking Loran receivers, the recording of important events as they occur, and the recording of draft sensing if desired. Provision is also made for recording other dump status signals (like dump valve status, etc.). Indicators showing read-outs of the Loran lines-of-position are visible for use as a navigation aid, at the discretion of the captain.

****Key words:** New York Bight, dumping operations, surveillance, monitoring, marine ecology

U.S. Department of State
CONVENTION ON THE PREVENTION OF MARINE POLLUTION DUMPING OF
WASTES AND OTHER MATTER

U.S. Dept. of State, Washington, DC

No. 287, November 16, 1972

****Abstract**

The Department of State is pleased to release the text of this Convention developed at the Intergovernmental Conference held at London, October 30 to November 13, 1972. This text is subject only to linguistic verification in the English, French, Spanish, and Russian languages. The Government of the United Kingdom, host of the Conference of 80 nations (with Observers from 12 others), is preparing the final text which will be open for signature beginning December 29, 1972, at London, Mexico City, Moscow and Washington. The Government of the United Kingdom is also preparing the Final Report of the Conference which will include a number of interpretive statements issued by certain of the participating nations, along with lists of the countries participating in the Conference and those signing the Final Act.

****Key words:** international, marine pollution, prevention

John R. Thompson

ECOLOGICAL EFFECTS OF OFFSHORE DREDGING AND BEACH

NOURISHMENT : A REVIEW

National Technical Information Service, Springfield, VA

Misc. Paper No. 1-73, January, 1973

****Abstract**

A review of ecological effects of offshore dredging is presented, based on literature review and personal contacts, to provide a frame work for determination of need for further knowledge. In general, little concrete effort aimed specifically at the determination of effects of offshore dredging was uncovered, although basic ecological works that are generally applicable are available. Much additional research of basic, but practical, orientation is needed to approach full understanding. Report shows that the beach may be divided into three zones on the basis

OCEAN DISPOSAL BIBLIOGRAPHY
SEPTEMBER 1976 REVISION

of moisture and biota found, and describes the possible effects on these biota resulting from offshore dredging and deposition of sediments on a beach. Background descriptive material and impacts on both offshore dredged areas and nourished beaches, and suggestions for further research follow. A selected bibliography is included.

****Key words:** offshore dredging, beach nourishment, coastal ecology, beach zoning

R. E. Train, R. Cahn, G. J. MacDonald
OCEAN DUMPING, A NATIONAL POLICY
Council on Environmental Quality, Washington, DC
October 1970

****Abstract**

This report discusses solutions to the international problems associated with ocean dumping. The United States may accept the challenge by recognizing the problems and assigning an urgent national priority. The 1972 U.S. Conference at Stockholm, Sweden is to serve as the platform of agreements.

****Key words:** ocean disposal, international legislation, U.S. Disposal policy

Charles T. Tucker, Rita J. Marmolejo
Interstate Electronics Corporation, Oceanics Division,
Anaheim, CA
DIRECTORY OF MANAGERS, ENGINEERS AND SCIENTISTS IN OCEAN
WASTE DISPOSAL AND RELATED ENVIRONMENTAL SCIENCE FIELDS
NTIS, Springfield, VA

****Abstract**

This directory was compiled by the Oceanics Division of Interstate Electronics Corporation while performing research and field surveys of ocean waste disposal. The purpose of the directory is to facilitate communication between managers, engineers and scientists working in the field of ocean waste disposal and related environmental sciences.

****Key words:** water pollution - professional personnel, oceans - water pollution, directories

Oregon State University
OCEANOGRAPHY OF THE NEARSHORE COASTAL WATERS OF THE PACIFIC
NORTHWEST RELATING TO POSSIBLE POLLUTION
U.S. Government Printing Office, Washington, DC
Volumes I, II, July, 1971

****Abstract**

OCEAN DISPOSAL BIBLIOGRAPHY
SEPTEMBER 1976 REVISION

This study is limited to the coastal zone of the Pacific Northwest from high tide to ten kilometers from shore, and does not include estuaries and bays. The literature has been reviewed in 21 chapters including chapters on geology, hydrology, winds, temperature and salinity, heat budget, waves, coastal currents, carbon dioxide and pH, oxygen, nutrients, and biology. Special chapters deal with field studies on thermal discharges, heat dispersion models, pulp and paper industrial wastes, trace metals, radiochemistry, pesticides and chlorine, thermal ecology, and biology of 20 selected species. A summary chapter is entitled "The nearshore coastal ecosystem: an overview." The bibliography contains more than 3100 entries, most from the open literature, but some from unpublished reports. A separate volume (II) includes the following appendices: (1) Wind Data; (2) Temperature and Salinity Data; (3) Wave Data; (4) Trace Metals (including trace metal toxicities); (5) Pesticide Toxicities; (6) Oxygen, Nutrient, and pH Data; (7) Radionuclides; and (8) An Annotated Checklist of Plants and Animals (including more than 4400 species).

****Key words:** oceanography, coastal zone, pollution, Pacific Northwest, geology, hydrology, meteorology, waves, chemical, physical, biological

Jr. Whitesides, E. Lawson

OCEAN DUMPING BRIEFING DOCUMENT - PRESIDENT'S WATER POLLUTION CONTROL ADVISORY BOARD

U.S. Environmental Protection Agency, Region II, New York, NY
September, 1972

****Abstract**

This Briefing Document was written for the use of the President's Water Pollution Control Advisory Board in connection with its meeting in New York City from September 26-29, 1972. The topic of Ocean Disposal of Waste was covered authoritatively by the Council on Environmental Quality in its 1970 Report to the President entitled Ocean Dumping: A National Policy. Much has happened in this field in the intervening two years and, as a result, some of the specific information in that report is now out of date. This Briefing Document has been assembled in an attempt to bring information in the Council's Report up to date. Although it has been written to be understandable by itself, it will be most meaningful if read in connection with the Council's Report.

****Key words:** current practices, environmental effects, alternatives, national policy, legislation, state activity, international activity

OCEAN DISPOSAL BIBLIOGRAPHY
SEPTEMBER 1976 REVISION

D.R. Young, C.S. Young and G.E. Hlavka
SOURCES OF TRACE METALS FROM HIGHLY URBANIZED SOUTHERN
CALIFORNIA TO THE ADJACENT MARINE ECOSYSTEM
Southern California Coastal Water Research Project, Los Angeles, CA
1972

****Abstract**

This report discusses the origin of various sources of trace metals that are found in the Southern California marine ecosystem. A special section is devoted to ocean dumping activities occurring in the Southern California Bight area. Types of wastes and amounts are reviewed in the report.

****Key words:** trace metals, sources, water pollution,
Southern California Bight